

STATEOFTENNESSEE

(Rev. 12-15-21)

January 1, 2021

Supplemental Specifications – 600SSof theStandard Specifications for Road and Bridge ConstructionJanuary 1, 2021**Subsection 602.04.A** (pg. 429), 12-15-21; **Shop Inspection;** Revise A:

Fabricators of steel bridges shall hold the following certifications in accordance with the AISC Certification Program ~~– Bridge QMS Certification for Structural Steel Fabricators – Standard for Steel Bridges:~~

1. As a minimum, all fabricators shall be certified in the category of ~~intermediate bridges-Certified Bridge Fabricator – Intermediate Bridge (IBR)~~ with applicable supplemental requirements.
2. Fabricators of advanced type bridges, as defined in the AISC Standard for Steel Bridges, shall be certified in the category of ~~advanced bridges-Certified Bridge Fabricator – Advanced (ABR)~~ with applicable supplemental requirements.
3. Fabricators of diaphragms, cross-frames, floor beams, stringers (rolled beams) and laterals shall be certified in the category of ~~Certified Bridge Fabricator – Intermediate Bridge (IBR)Intermediate bridges,~~ as a minimum.
4. Fabricators of bridge bearings, expansion joints, sign structures and other metal highway components as listed in the AISC standard shall hold certification ~~under the AISC Certification Program – Standard for Bridge and Highway Metal Component Manufacturers. As an alternative, fabricators of bridge bearing or expansion joints may hold certification in the category of Intermediate bridges under the Standard for Steel Bridges. under the AISC Certification Program – Bridge Component QMS Certification (CPT). As an alternative, fabricators of bridge bearing or expansion joints may hold certification under the Bridge QMS Certification in the category of Certified Bridge Fabricator – Intermediate Bridge (IBR).~~

**Subsection 607.02.B** (pg. 579), 12-15-21; **Materials, Pipe Culverts, Cross Drains, Side Drains, & Storm Drains;** Remove 1<sup>st</sup> Sentence:

**B. Pipe Culverts, Cross Drains, Side Drains, & Storm Drains**

~~Where Pipe Culverts (Cross Drains & Median Drains) are specified, provide them in accordance with the following:~~

**Subsection 607.07** (pg. 582), 12-15-21; **Joining Pipe:** Revise 5<sup>th</sup> paragraph.

HDPE, PP, SRTRP, and PVC pipe shall be joined in accordance with ASTM D3212 and meet the performance requirements for ~~soil tightness, unless~~ water-tightness is specified. Install joints so that the connection of pipe sections, for a continuous line, will be free from irregularities in the flow line.

**Subsection 619.04.A** (pg. 652-653 ), 12-15-21; **Volumetric Continuous Mixers;** Revise No. 3 & Ticket List:

3. The volumetric mixing plant shall be operated and calibrated by a Volumetric Mixer Operator ~~certified by VMMB and holds with~~ a TDOT Concrete Field Testing Technician Certification or equivalent. In the presence of the Engineer, perform the calibration of gate settings according to the manufacturer's recommendations for the mix design to be used before starting work. The calibration procedure shall account for the moisture content of the aggregates. The yield shall be maintained within a tolerance of plus or minus 1% and verified using a minimum 2 cubic feet container every 50 cubic yards. Recalibrations will be necessary when indicated by the yield checks, and at any other times the Engineer deems necessary to ensure proper proportioning of the materials.

Each load of concrete produced by a volumetric continuous mixing plant shall be accompanied by a Concrete Delivery Ticket. The ticket shall include as a minimum the following:

- a. Date
- b. Contract number
- c. County
- d. Class of concrete
- e. Concrete design number
- f. Number of cubic yards
- g. Load number
- h. Truck number
- i. Maximum water allowed by design
- j. Total water added
- k. Water-cementitious materials ratio
- l. Time loaded
- m. Time discharged
- n. Signature of producer's ~~VMMB-Certified~~ Volumetric Mixer Operator

**Subsection 623.02.C.1** (pg. 673), 12-15-21; **Modular Roadway Expansion Joints, Fabrication and Construction;** Revise No. 1:

1. Construct the expansion joint systems as shown on the shop drawings. Meet the tolerance requirements included in AASHTO specifications. Perform all welding according to AWS specifications and by certified welders only. Ensure that fabricators are certified ~~under the AISC Quality Certification, Category I, Simple Steel Bridges, SBR-1B, under the AISC Certification Program – Bridge Component QMS Certification (CPT). As an alternative, fabricators of bridge bearing or expansion joints may hold certification under the Bridge QMS Certification in the category of Certified Bridge Fabricator - Intermediate Bridge (IBR).~~

**Subsection 623.03.C.2** (pg. 676, 677), 12-15-21; **Strip Seal Expansion Joints, Fabrication and Construction**; Revise No. 2:

2. Shop drawings shall also supply information regarding material specifications, geometry, a table of variable temperature and dimensions, and a bill of material. The maximum joint opening shall be 4 inches. Construct the expansion joint systems in accordance with the details shown on the shop drawings. Tolerance requirements shall be in accordance with AASHTO Specifications. Perform all welding in accordance with AWS specifications and by certified welders only. Ensure that fabricators are certified ~~under the AISC Quality Certification, Category I, Conventional Steel Structures-~~ under the AISC Certification Program – Bridge Component QMS Certification (CPT). As an alternative, fabricators of bridge bearing or expansion joints may hold certification under the Bridge QMS Certification in the category of Certified Bridge Fabricator - Intermediate Bridge (IBR).